

# 23ME704 : Automobile Engineering

## Unit III

### Transmission System & Suspension System

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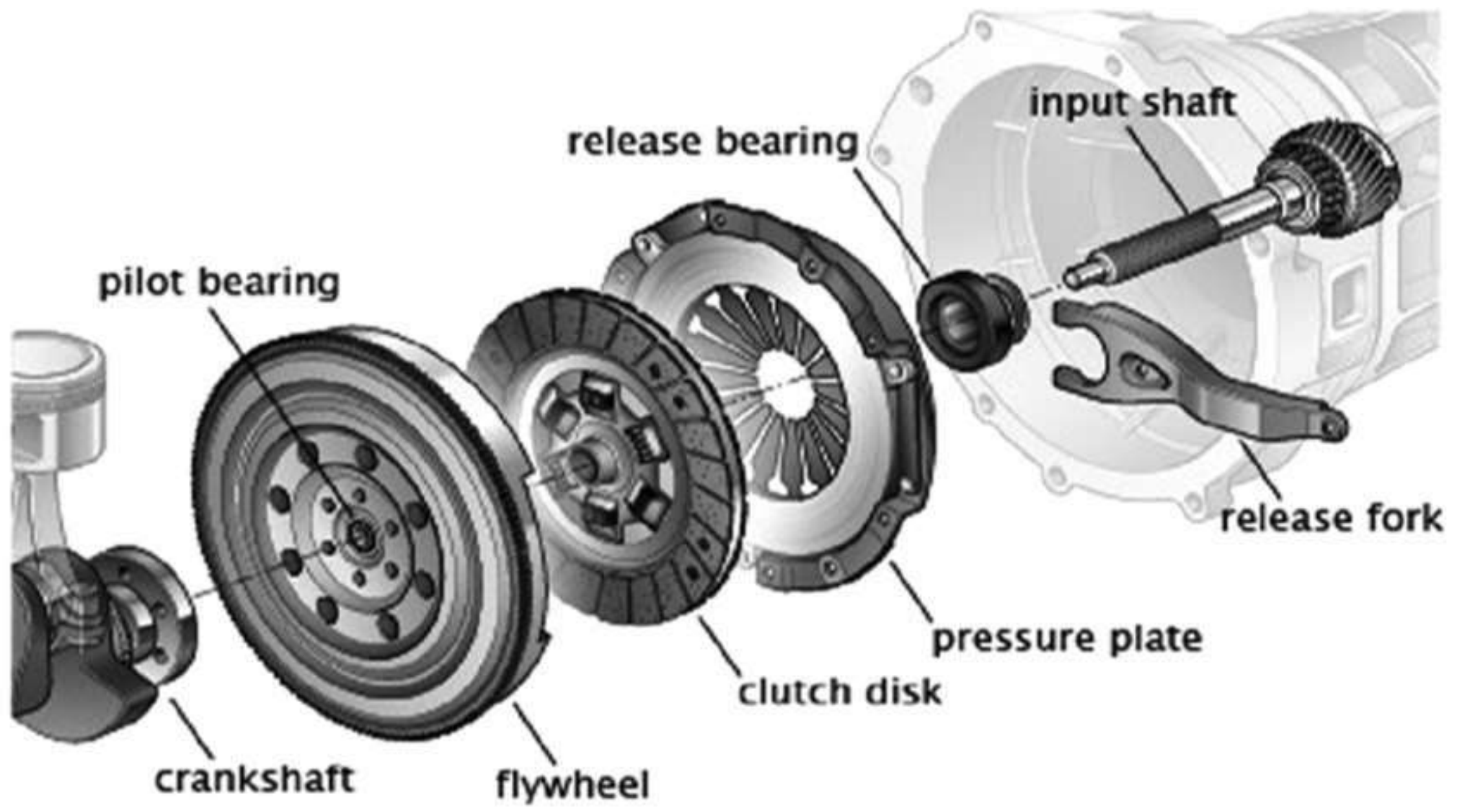
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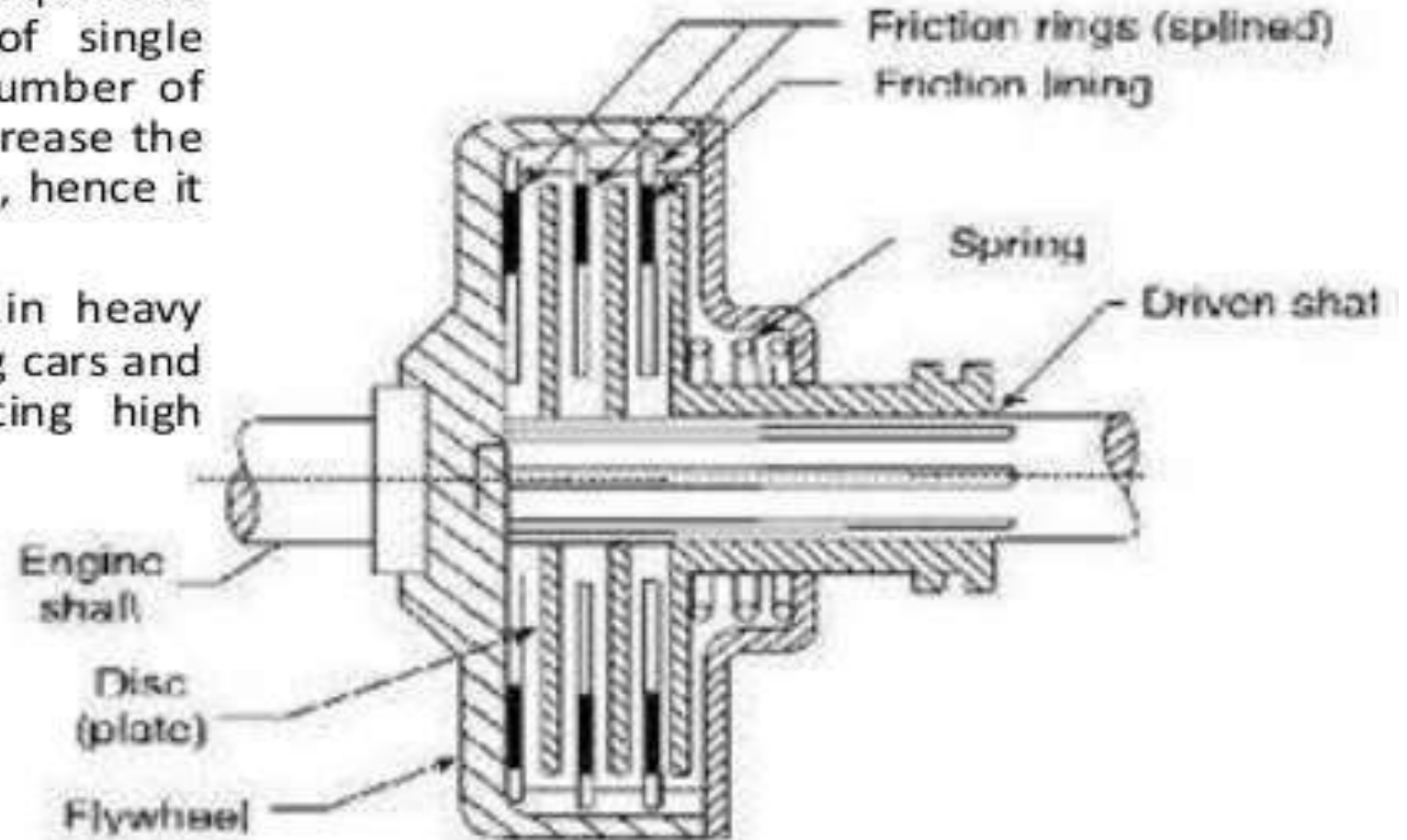
# What is Clutch?

- The Clutch is a mechanical device used to connect or disconnect the driven shaft from the driving shaft at the will of the operator while power is transmitted from driving to driven shaft.
- Clutch is mounted between driving and driven shaft and power is transmitted from one shaft to the another shaft which is required to be started and stopped frequently.



# Multiplate Clutch

- When a great amount of torque is to be transmitted instead of single plate we can employ a number of friction plates. This will increase the number of mating surfaces, hence it is called multiplate clutch.
- These clutches are used in heavy commercial vehicles, racing cars and motorcycles for transmitting high torque.





Friction Clutch



Cone Clutch



Overrunning Clutch



Safety Clutch



Centrifugal Clutch



Hydraulic Clutch



Electromagnetic Clutch



Dog Clutch

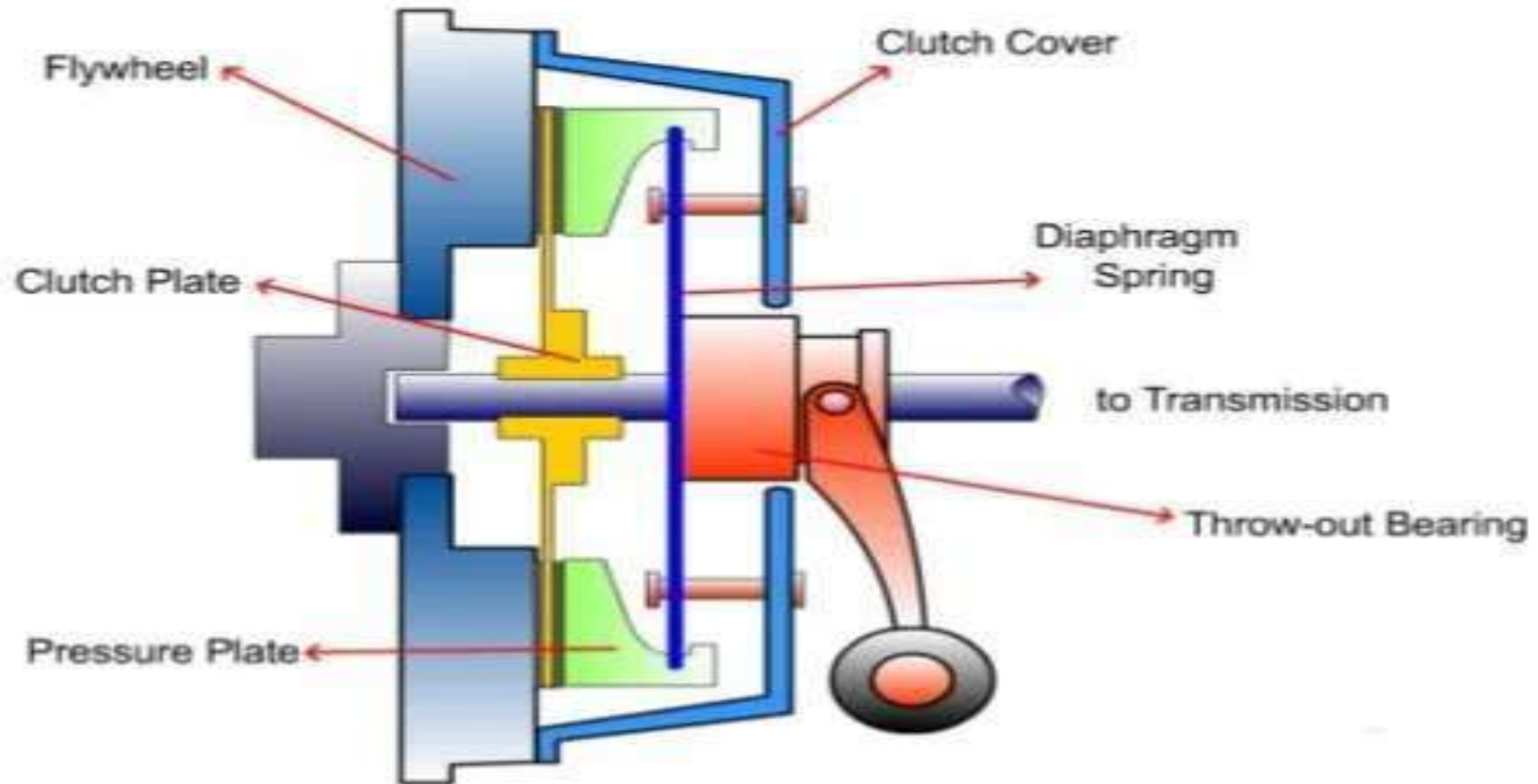


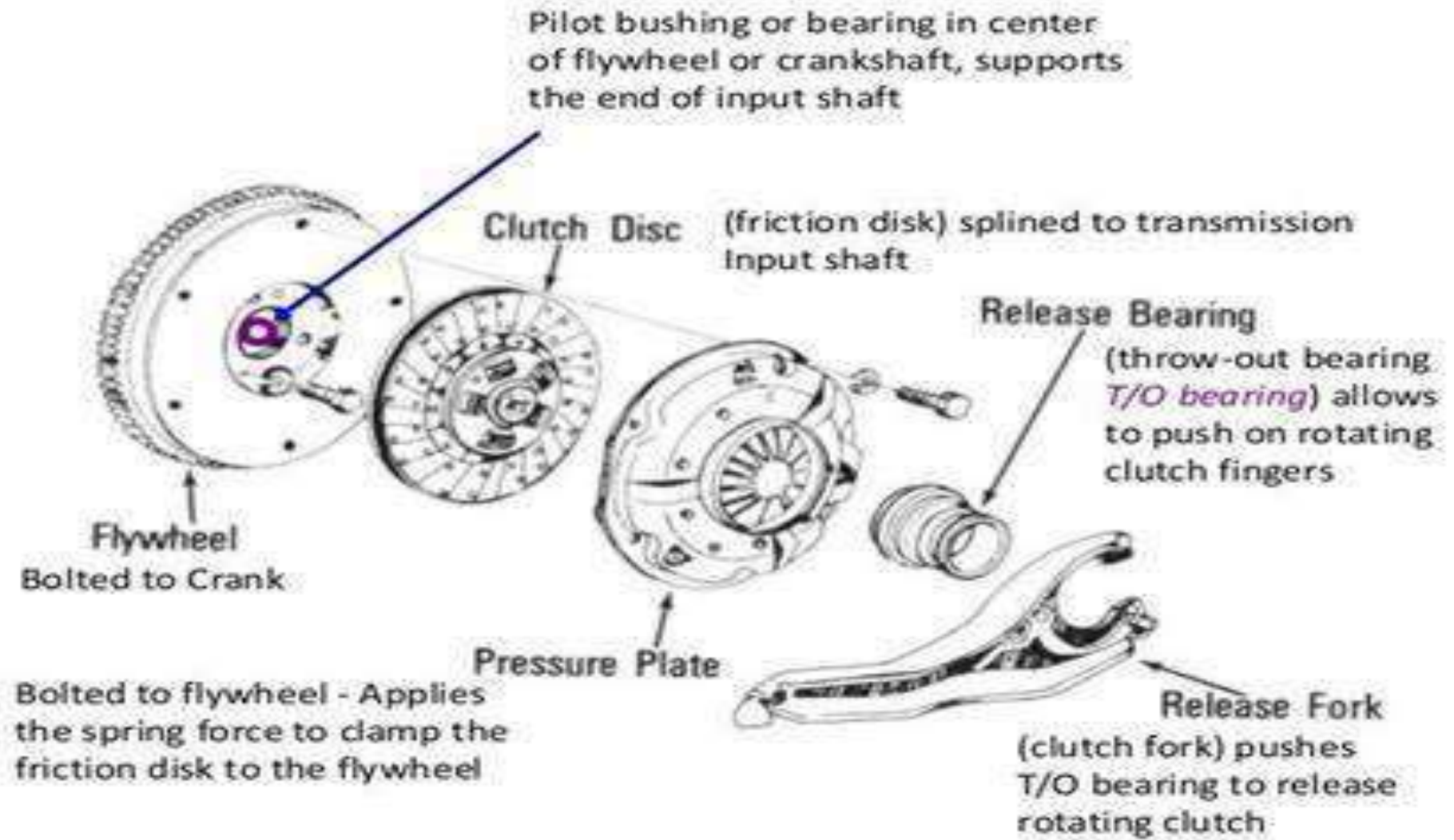
Single Plate Clutch



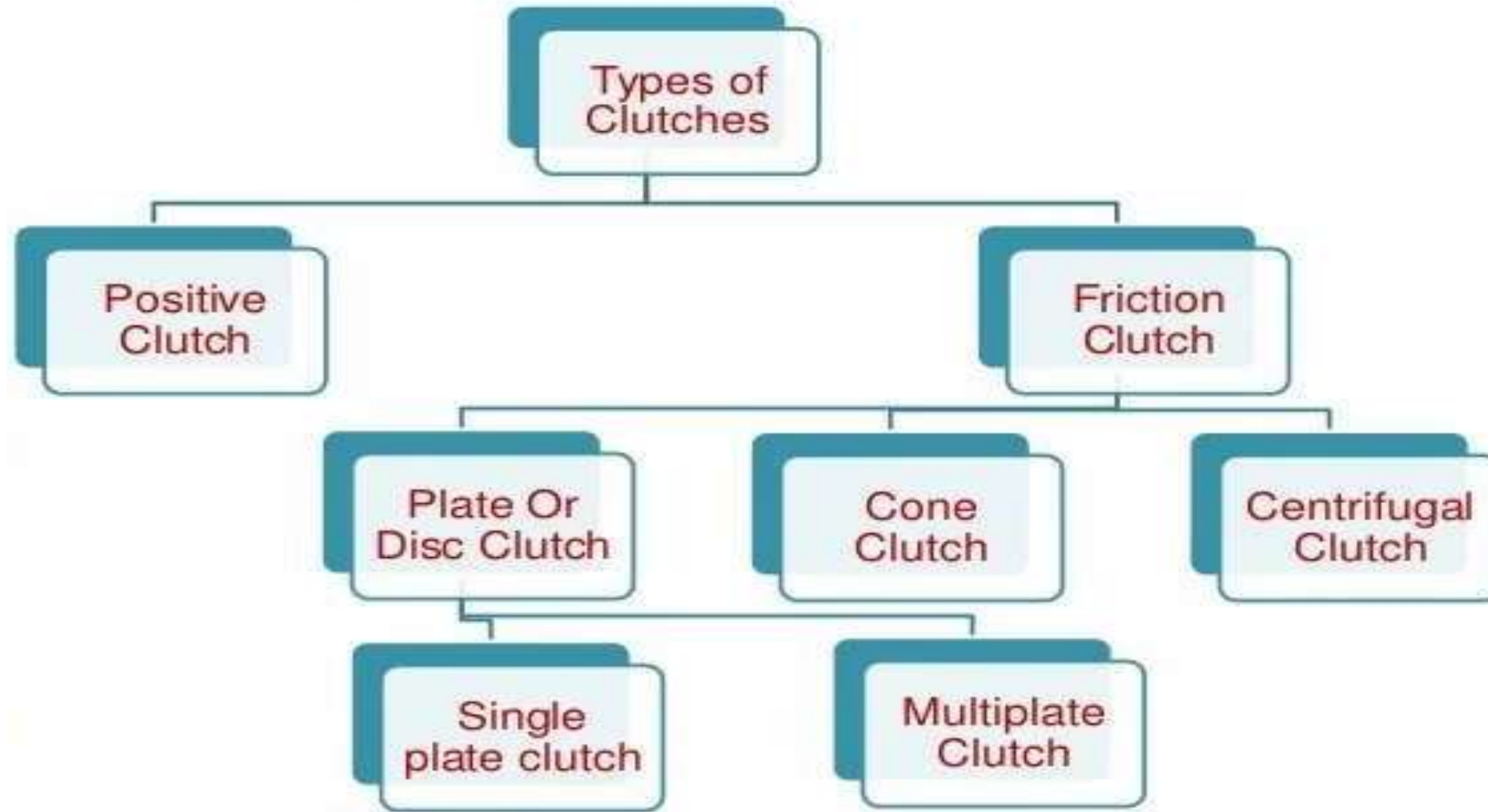
Diaphragm Clutch

# Single Plate clutch

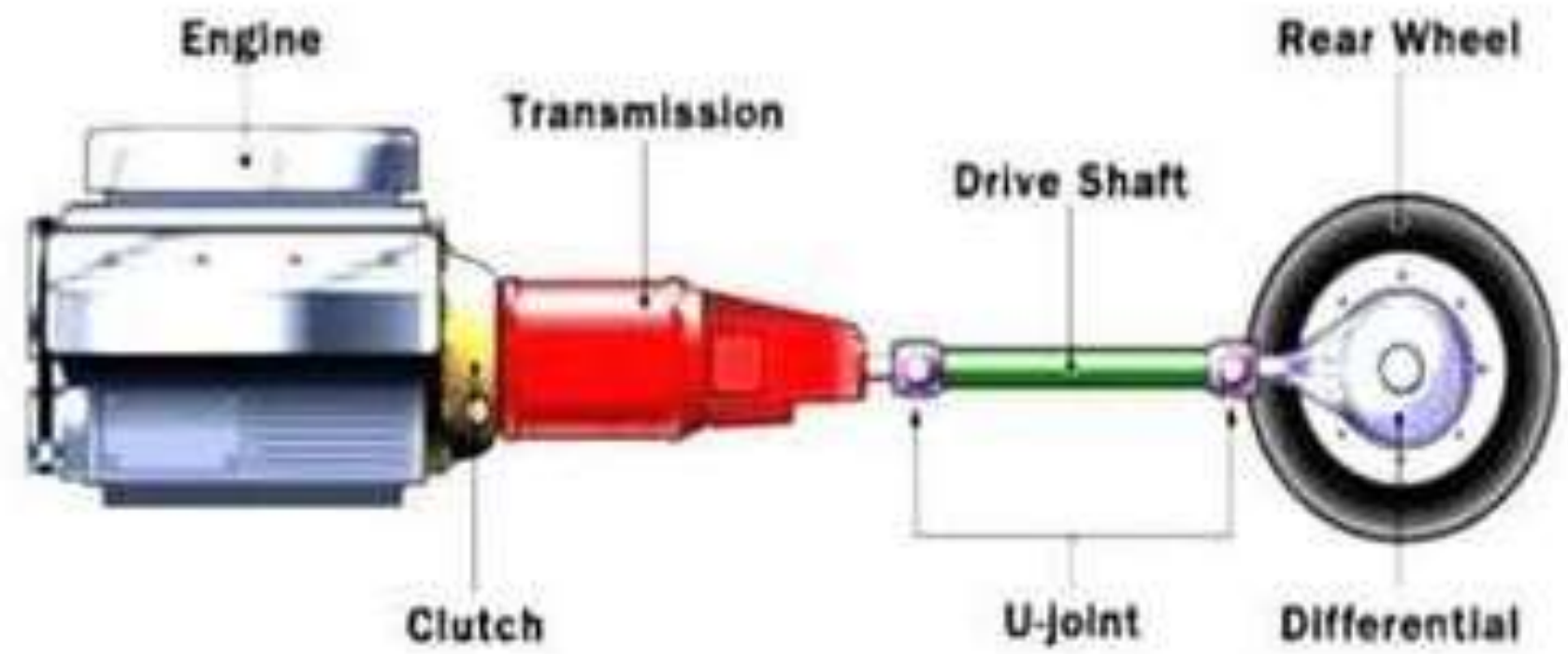




# Types Of Clutch



# Location of clutch



# Clutch:

A clutch is a mechanical device used in vehicles with manual transmissions to engage and disengage the power transmission between the engine and the gearbox

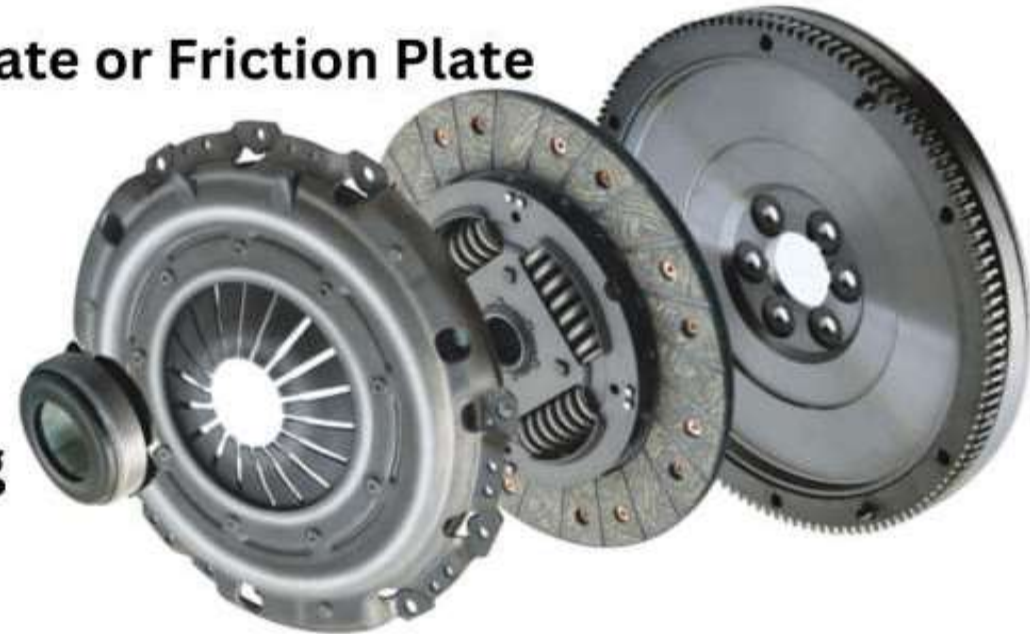
The clutch in a manual transmission system consists of several key components that work together to engage and disengage the engine from the transmission. Here are the main components of a clutch:

1. Clutch Disc
2. Flywheel
3. Pressure Plate
4. Clutch Release Bearing
5. Clutch Fork
6. Clutch Housing
7. Clutch Pedal

## Clutch Plate or Friction Plate

## Flywheel

## Bearing



## Pressure Plate

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